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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,273	11/19/2003	Jun Wan	05-03-005	7403	
45113 DOCKET CLE	7590 01/18/200 ERK	7	EXAMINER		
PO BOX 8008	89	•	PALADINI, ALBERT WILLIAM		
DALLAS, TX 75380			ART UNIT	PAPER NUMBER	
			2125		
		, ,			
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		01/18/2007	PAPER		

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicati	on No.	Applicant(s)				
Office Action Summary		10/717,2	73	WAN ET AL.				
		Examine	•	Art Unit				
	· · · · · · · · · · · · · · · · · · ·	Albert W.	Paladini	2125				
	The MAILING DATE of this communicat	ion appears on th	e cover sheet with the c	orrespondence ad	ddress			
Period fo	• •							
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAIL sions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, leply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THE CENTRY CFR 1.136(a). In no evaluation. The period will apply and we by statute, cause the apply statute, cause the apply statute.	HIS COMMUNICATION ent, however, may a reply be tin till expire SIX (6) MONTHS from dication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed o	n 03 November 2	006					
<i>'</i> —		This action is r						
<i>'</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
الــار	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	·		·					
Dispositi	on of Claims							
4)⊠	Claim(s) <u>1-30</u> is/are pending in the appl	ication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	5)⊠ Claim(s) <u>9-30</u> is/are allowed.							
· ·	S)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	and/or election i	equirement.					
Applicati	on Papers			·				
9)[	The specification is objected to by the E	xaminer.						
10)	The drawing(s) filed on is/are: a)	accepted or b	☐ objected to by the	Examiner.				
	Applicant may not request that any objection	n to the drawing(s)	oe held in abeyance. Se	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the	correction is requi	ed if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to by	the Examiner. N	ote the attached Office	Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for All b) Some * c) None of:  1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International see the attached detailed Office action for	cuments have been cuments have been have been here. Bureau (PCT Ru	en received. en received in Applicati ents have been receive le 17.2(a)).	on No ed in this Nationa	l Stage			
2)  Notic 3) Infon	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	948)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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1. Applicant's arguments filed on 11/3/06 have been fully considered and the 35 USC 1<sup>st</sup> paragraph rejection has been withdrawn, the 35 USC 2<sup>nd</sup> paragraph rejection for claims 9-30 has been withdrawn, and the 35 USC 102 rejection has been withdrawn, but the arguments are not persuasive for the 35 USC 2<sup>nd</sup> paragraph rejection of claims 1-8.

### Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 3. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

#### Claim 1

Lines 8-12 recite "traversing the internal body topology to identify a second element in a second wall side of the graphic model; measuring the distance between the first element and the second element; and storing a wall thickness, the wall thickness corresponding to the measured distance." After the first element is selected, the internal body can be traversed at varying angles. So the measured distance will depend upon the angle taken to traverse the body.

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## Allowable Subject Matter

4. Claims 9-30 are allowed.

5. The following is a statement of reasons for the indication of allowable subject matter: None of the references cited or the art searched disclose or teach alone or in combination the method for determining the thickness of a wall of a graphic model which includes searching for a second element in the surface mesh guided by the face normal direction and projecting the second element onto a face of a model to identify a projected point in combination with and in the same relationship to the other elements of claims 9, 11, 19, 21, and 29.

## Response to Arguments

With respect to the 35 USC 1<sup>st</sup> paragraph rejection of claims 1-8, the applicant states on page 10 "With regard to claim 1, as described above, in some embodiments, the specification describes that the traversing is guided by the face normal at a point projected from a point on the surface element, and by the topology of the tetrahedral elements in the mesh. At any rate, the language of claim 1 is clear and definite and describes the steps of this embodiment clearly." The Applicant has not responded specifically to the examiner's analysis, which concludes, "the measured distance will depend upon the angle taken to traverse the body." Thus, the technique does not result in a single result. With respect to the Applicant utilizing the specification to limit the claim, this is contrary MPEP 2111 which states, "During patent examination, the pending claims must be "given their broadest reasonable interpretation consistent with the specification." The Federal Circuit's en banc decision in Phillips v. AWH Corp., 415 F.3d 1303, 75 USPQ2d 1321 (Fed. Cir. 2005) expressly recognized that the USPTO employs the "broadest reasonable interpretation" standard:". The specification is used as a dictionary to interpret the claims, but may not be used to further narrow the claims, as suggested by the Applicant's arguments.

#### **Conclusion**

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communication from the examiner should be direct to Albert W. Paladini whose telephone number is (571) 272-3748. The examiner can normally be reached from 7:00 to 3:00 PM on Monday, Tuesday, Thursday, and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Leo P. Picard, can be reached on (571) 272-3749. The official fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

January 16, 2007

Albert W. Paladini Primary Examiner Art Unit 2125